

User Manual

OriCell™ Non-Essential Amino Acid Cell Culture Supplement (100X)

Catalog No. NEAA-10201



Introduction

OriCell™ Non-Essential Amino Acid Cell Culture Supplement (100X) contains seven non-essential amino acids commonly required for cell culture and is designed to optimize the formulation of culture media.

Most cells can synthesize non-essential amino acids (NEAAs) through metabolic pathways such as glutaminolysis, glycolysis, and the tricarboxylic acid (TCA) cycle. However, when these amino acids are present at low concentrations, cells need to consume more glucose and glutamine in the culture medium to support their synthesis, leading to increased metabolic burden and the accumulation of metabolic byproducts that may negatively affect cell growth. Supplementing culture media with NEAAs reduces the need for de novo amino acid synthesis, helping to conserve cellular energy, minimize metabolic stress, and support optimal cell growth.

Note: This product is intended for research use only and is not for diagnostic, therapeutic, clinical, household, or any other applications.

When citing our products in academic publications, please use the following format: “OriCell™ [Product Name] + [Catalog Number], from Cyagen Biosciences.”

Product Information

Amino Acid Composition	Concentration (mg/L)
Glycine	750
L-Alanine	890
L-Asparagine	1320
L-Aspartic Acid	1330
L-Glutamic Acid	1470
L-Proline	1150
L-Serine	1050

QC

- Pass the detection of bacteria, fungi, mycoplasma and endotoxins.
- Pass the detection of osmotic pressure and pH.
- Pass the detection of product quality.

Please refer to "COA" for details.

Product Stability and Storage Conditions

1. This reagent has a shelf life of 1 year and should be stored at 2 – 8 °C.
2. If the reagent will not be used within a short period, aliquot it for storage. Do not freeze the product.

3. Use the product before the expiration date. Expired reagents may significantly compromise cell culture performance.

Instructions for Use

1. Mix the OriCell™ Non-Essential Amino Acid Cell Culture Supplement (100X) by gently shaking or inverting several times before use.
2. Add the required amount of NEAA to the complete medium at a 1:100 dilution ratio (e.g., 1 mL of NEAA per 100 mL of complete medium).
3. Mix the prepared medium thoroughly and protect it from light using aluminum foil or other light-protective materials.

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